	CO	Form App OMB No.									
A. CONTRACT LINE ITEM NO. 0004  D. SYSTEMITEM TVAC CONTROL System Upgrade TVAC Control System Upgrade TVAC Control System Upgrade TVAC Control System Upgrade Conference Agenda, Minutes, and Presentations Concept Design Review (CoDR), Preliminary Design Review (CoDR), Preliminary Design Review (CoDR) A0001  Conference Agenda, Minutes, and Presentations Concept Design Review (CoDR), Preliminary Design Review (CoDR), Preliminary Design Review (CoDR) AUTHORITY (Pata Acquisition Document No.) DI-ADMN-81249A (Conference Agenda) DI-ADMN-81250A (Conference Minutes) DI-ADM	data needed, and completing a burden, to the Department of E comply with a collection of info	and reviewing the collection defense, Executive Service rmation if it does not display	n of information. Se	verage 110 hours per res	his burden estimate or any of	ther aspect of this c	ollection of information, including a	uggestions for	reducing	the	
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LT STATEMENT SEE BLK 16 SEE BLK 16  8. APP CODE A  11. AS OF DATE N/A  12. DATE OF SUBSEQUENT N/A  15. DATE OF SUBSEQUENT N/A  16. REMARKS  BLOCK 4: Contractor devised and Government approved format. Electronic submission shall be made using Microsoft Office Products.  BLOCK 8: Code 8212 review and approval (or disapproval) and comments will be within three (3) business days of submission. Contractor shall submit an updated version, incorporating comments, for Code 8212 approval no less than two (2) business days after Code 8212 comments received, unless otherwise specified.  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLOCK 10: For each design review (PDR), and Critical Design Review (CDR).  BLOCK 10: For each design review (PDR), and Critical Design Review (CDR).  BLOCK 10: For each design review (PDR), and Critical Design Review (CDR).  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLOCK 10: For each design review. Minimum requirement to support Concept Design Review (CDR).  BLO	DI-ADMN-81250A	Conference Min	utes)	SOW Paragra	ph 3.6.2		CODE 8212				
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COI	Form Approved OMB No. 0704-0188									
data needed, and completing ar burden, to the Department of De	nd reviewing the collection efense, Executive Service mation if it does not displa	n of information. Se es Directorate (0704	end comments regarding the -0188). Respondents shou	nis burden estimate or any oth uld be aware that notwithstan	ner aspect of this ding any other pro	ons, searching existing data source collection of information, including so ovision of law, no person shall be su zation. Send completed form to the	uggestions for	reducing enalty for	the failing to	
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D. SYSTEM/ITEM	and the second second	. CONTRACT	/PR NO.		F. CONTR	ACTOR				17. PRICE GROUP
TVAC Control Syste	- /					<u> </u>				IV (NSP)
1. DATA ITEM NO. A0002	2. TITLE OF DA Acceptance To		d Procedures			nce Test Plan nce Test Procedures				18. ESTIMATED TOTAL PRICE
4. AUTHORITY (Data Acquisition Document No.) DI-NDTI-80808: Test Plans/Procedures  5. CONTRACT REFERENCE SOW Paragraphs 3.4.3.1						6. REQUIRING OFFICE CODE 8212				
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQU	JENCY s REQ	As REQ / See	alan lancara. 3	14. DISTRII	BUTION	. COPIE	-0	
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BLOCK 4: Contract shall be made using			approved forma	t. Electronic subm	nission	984				
The Acceptance Tes guide to test and eva vacuum chamber op	aluation activitie	s to validate	and verify the c	ontrol systems and						
The ATP shall include the hardware, software										
The Test Plan and F					ing the					
The Test Plan and Procedures shall include the following:  A. Purpose of test.  B. Type of test (e.g., Physical Inspection, Factory Acceptance Test, Pre-S Acceptance Test, and Site Acceptance Test).  C. Applicable documents.  D. Functional analysis of the requirements.  E. Identification numbers of all requirements to be verified/validated.					•					
F. Test strate							ļ			
<ul> <li>G. Test schedule.</li> <li>H. Cognizant personnel responsible for performing the verification/validation effort.</li> <li>I. Site locations, support equipment, facilities, test equipment, materials and tools required during verification/validation activities.</li> <li>J. Safety precautions.</li> </ul>										
K. Any specia	al environmental n of units to be t		ts.							
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						15. TOTAL				
G. PREPARED BY	1	H. DATE		I. APPROVED	D BY		J. DAT	TE.		
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DD Form 1423-1, FEB 2001

PREVIOUS EDITION MAY BE USED

Page 1 of 2 Pages

		CONTRACT	DATA REQ (1 Data Iten		NTS LIST			
A. CONTRACT LIN	100	B. EXHIBIT	C. CATEG	ORY: TM	OTHER	Х	_	
D. SYSTEM/ITEM TVAC Control System		E. CONTRACT/PR NO.	F. CONTRACTOR					
1. DATA ITEM NO. A0002 (cont)	. 2. TITLE OF DATA ITEM Acceptance Test Plan (ATP)			3. SUBTITLE Acceptance Inspections / Reports Acceptance Test Procedures / Reports				

## 16. REMARKS (Continued)

BLOCK 4: (Continued)

- M. Test description to include the following:
  - Step-by-step procedures which are to be followed by the test team when performing each test.
  - Define readings to be taken, settings to be used, and description of the test equipment, including commercial identification
  - 3. Drawings, schematics, photographs, etc, of noncommercial fixtures and testers necessary for test evaluation.
  - Test equipment. Description, nomenclature and serial number of all test equipment used on the project including appropriate schematic or block diagrams.
    - List the serial number of all equipment(s) making up the test apparatus or subjected to the testing.
    - ii. Provide a brief description of all special test equipment designed for, constructed for, and used on the project including appropriate schematic and/or block diagrams.
  - Test performed. Identification and description of all test(s) performed (cite applicable requirements, paragraph number, and test parameters).
    - i. Provide control settings of the test sample.
    - ii. Resolutions of measurement equipment and range of input signals.
  - Inspection criteria that defines the minimum performance requirements (pass/fail criteria) that the unit under test must meet in order to be considered acceptable to the Government. This shall include, as a minimum, the performance requirements specified throughout SOW section 3.1.
  - 7. Test results documentation procedures and/or tables.
  - 8. Corrective action approach of found deficiencies, if any, including documentation and reporting.

BLOCK 8: Code 8212 review and approval (or disapproval) and comments will be within fifteen (15) business days of submission. Contractor shall submit an updated version, incorporating comments, for Code 8212 approval no less than fifteen (15) business days after Code 8212 comments received, unless otherwise specified.

BLOCKS 12 and 13: Initial draft due no later than Preliminary Design Review (PDR). Second draft due no later than Critical Design Review (CDR).

Updates for Government review and approval are due no later than thirty (30) business DB each test. Allow ten (10) business days for Government response. Resubmit, with Government comments incorporated, within ten (10) business DARC.

BLOCK 14: Electronic submission required. Hard copies will be made available upon request. CDRLs due on weekends and holidays shall be due the morning of the next business day. Upon electronic delivery of data the contractor shall notify by electronic notification in lieu of transmittal letter, all CDRL Block 6 and 14 addressees of such delivery.

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form App OMB No.				
burden, to the Department of D	efense, Executive Sen mation if it does not di	vices Directorate (070)	end comments regarding this i	burden estimate or any of he aware that notwithstar	ner aspect of this	ons, searching existing data source collection of information, including a ovision of law, no person shall be si zation. Send completed form to the	suggestions for	reducing	the	
A. CONTRACT LINE I		B. EXHIBI	42	C. CATEGORY:						
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D. SYSTEM/ITEM TVAC Control Syste	m I Ingrada	E. CONTRACT	/PR NO.		F. CONTR	ACTOR				GROUP
1. DATA ITEM NO.	2. TITLE OF I	DATA ITEM		liura di di	3. SUBTIT	15				IV (NSP)
A0003		Test Report			3. 305111	LE				18. ESTIMATED TOTAL PRICE
4. AUTHORITY (Data a DI-NDTI-80809B: To			5. CONTRACT RE SOW Paragraph			6. REQUIRING OFFICE CODE 8212	E			
7. DD 250 REQ	9. DIST STATEMENT	10. FREQU	NET - STREET WAY	DATE OF 1ST S		14. DISTRI	BUTION			
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E. Results ve	ersus planned		iss / fail criteria).				-			
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under test must meet in order to be considered acceptable to the							-	5-300		
Government. This shall reference, as a minimum, the performance										
requirements pertinent to the test article specified throughout SOW section 3.1.										
						15. TOTAL				
G. PREPARED BY		H. DATE		I. APPROVE	BY		J. DAT	E		
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		CONTRACT DAT	A REQUIR	EMENTS LIST
A. CONTRACT LIN	E ITEM NO.	B, EXHIBIT	C. CATEGORY:	
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D. SYSTEM/ITEM		E. CONTRACT/PR NO.		F. CONTRACTOR
TVAC Control Sys	stem			
1. DATA ITEM NO.	2. TITLE OF	DATA ITEM		3. SUBTITLE
A0003 (cont)	Acceptance	e Test Plan (ATP) Report		Acceptance Inspections / Reports Acceptance Test Procedures / Reports
16. REMARKS (Con	ntinued)			
BLOCK 8: Code Contractor shall s	8212 review ubmit an upo	and approval (or disapproval) and lated version, incorporating comm d, unless otherwise specified.	d comments will lents, for Code 8	pe within ten (10) business days of submission. 212 approval no less than ten (10) business days after
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CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form App. OMB No.				
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A. CONTRACT LINE IT		B. EXHIBI		C. CATEGORY:	->//20	2000				
000			A	TDP						17. PRICE
D. SYSTEM/ITEM TVAC Control Syste		E. CONTRACT	7PR NO.		F. CONTR	ACTOR				GROUP
1. DATA ITEM NO. A0004	2. TITLE OF D		AD Models		3. SUBTIT	LE ing Drawings				IV (NSP)  18. ESTIMATED
					Engineer	ing Computer Aided D	esign (C	AD) M	odels	TOTAL PRICE
4. AUTHORITY (Data A DI-SESS-81000E: P and Associated Lists	roduct Drawing		5. CONTRACT R SOW Paragrap			6. REQUIRING OFFICE CODE 8212				
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16. REMARKS						COR	-	5		
BLOCK 4: Contracte shall be made using			t approved format	. Electronic subr	nission		-			
Engineering drawing Y14.100M and shall			rdance with MIL-S	STD-100G or ASI	ИΕ					
A. A uniqu	e drawing num	nber;								
B. Title sh	eet with drawir	ng indexes ar	nd revision indexe	es;	4		-		-	
C. Govern	ment signature	e authority for	r drawings will be	the COR.	-		+			
CAD models shall be format.	e in the Standa	ard for the Ex	change of Produc	t model data (ST	EP)					
Engineering drawing changes made to the				document any a	nd all					
BLOCK 8: Code 82 twenty (20) business			disapproval) and	comments will be	within	2000				
BLOCK 12: Initial su Allow twenty (20) bu comments incorpora	siness days fo	r Governmen	t response. Resu	stallation of full sy ubmit, with Gover	stem. nment					
BLOCK 13: Final su as well as a CAD file					wings					
BLOCK 14: Electron request. CDRLs due business day. Upon notification in lieu of	on weekends electronic deli	and holidays ivery of data	shall be due the the contractor sha	morning of the ne all notify by electr	ext onic					
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						15. TOTAL				
G. PREPARED BY		H. DATE		I. APPROVE	D BY		J. DA	TE.		

17. PRICE

IV (NSP)

TOTAL PRICE

Form Approved

## OMB No. 0704-0188 (1 Data Item) The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding his burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services Directorate (O74-O188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for falling to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E. A. CONTRACT LINE ITEM NO. B. EXHIBIT C. CATEGORY: 0004 A TDP TM OTHER F. CONTRACTOR D. SYSTEM/ITEM E. CONTRACT/PR NO. TVAC Control System Upgrade 1. DATA ITEM NO. 2. TITLE OF DATA ITEM 3. SUBTITLE A0005 Signal List 6. REQUIRING OFFICE 4. AUTHORITY (Data Acquisition Document No.) 5. CONTRACT REFERENCE DI-SESS-81000E: Product Drawings/Models SOW Paragraph 3.3.11 **CODE 8212** and Associated Lists 7. DD 250 REQ 9 DIST 10. FREQUENCY 12. DATE OF 1ST SUBMISSION 14. DISTRIBUTION STATEMENT As REQ SEE BLK 16 b. COPIES LT F 8. APP CODE 11. AS OF DATE 13. DATE OF SUBSEQUENT a. ADDRESSEE Draft SUBMISSION SEE BLK 16 A As REQ Reg Repro 16. REMARKS COR 5 BLOCK 4: Contractor devised and Government approved format. Electronic submission shall be made using mutually agreed method. The signal list shall include comprehensive information for each input and out of the system to include: PAC address, PAC name, schematic name, description, and signal type. The signal list shall be in spreadsheet or database format. BLOCK 8: Code 8212 review and approval (or disapproval) and comments will be within twenty (20) business days of initial submission. BLOCK 12: Initial submission is due twenty (20) business DA installation of full system. Allow twenty (20) business days for Government response. Resubmit, with Government comments incorporated, within twenty (20) business DARC. BLOCK 13: Final submission of five (5) hard copies of approved "as installed" drawings as well as a CAD file of each drawing and CAD model of integrated system. BLOCK 14: Electronic submission required. Hard copies will be made available upon request. CDRLs due on weekends and holidays shall be due the morning of the next business day. Upon electronic delivery of data the contractor shall notify by electronic notification in lieu of transmittal letter, all CDRL Block 6 and 14 addressees of such delivery. 15. TOTAL G. PREPARED BY H. DATE I. APPROVED BY J. DATE

CONTRACT DATA REQUIREMENTS LIST

Form Approved

(1 Data Item)						OMB No.	0704-018	38		J
data needed, and completing ar burden, to the Department of De	nd reviewing the collect efense, Executive Servi mation if it does not dis	tion of information. Se ices Directorate (0704)	end comments regarding this 4-0188). Respondents shoul	s burden estimate or any ot d be aware that notwithstar	her aspect of this ding any other pro-	ions, searching existing data source collection of information, including s ovision of law, no person shall be su zation. Send completed form to the	uggestions for	reducing enalty for	the failing to	
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16. REMARKS						COR	-	5		
BLOCK 4: Contract shall be made using			t approved format	. Electronic subr	nission					
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BLOCK 12: Contra performance of the control system. Allo performance of the incorporated, within	acceptance tes ow fifteen (15) acceptance tes	st, an electror business day st. Resubmit,	nic copy of the coo s for Government	de to be installed response upon	to on the					
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## OMB No. 0704-0188 (1 Data Item) The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if I does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Cifficer for the Contract/PR No. listed in Block E. A. CONTRACT LINE ITEM NO. B. EXHIBIT C. CATEGORY: 0004 OTHER TDP TM 17. PRICE D. SYSTEM/ITEM E. CONTRACT/PR NO. F. CONTRACTOR TVAC Control System Upgrade IV (NSP) 1. DATA ITEM NO. 2. TITLE OF DATA ITEM 3. SUBTITLE A0007 Software Version Description (SVD) 18. ESTIMATED TOTAL PRICE 6. REQUIRING OFFICE 4. AUTHORITY (Data Acquisition Document No.) 5 CONTRACT REFERENCE DI-IPSC-81442A SOW Paragraph 3.3.14 **CODE 8212** 7. DD 250 REQ 9. DIST 10. FREQUENCY 12. DATE OF 1ST SUBMISSION 14. DISTRIBUTION STATEMENT As REQ SEE BLK 16 b. COPIES IT 13. DATE OF SUBSEQUENT 8. APP CODE 11. AS OF DATE a. ADDRESSEE Draft SUBMISSION SEE BLK 16 F A As REQ Repro Reg 16. REMARKS COR 5 BLOCK 4: Contractor devised and Government approved format. Electronic submission shall be made using mutually agreed method. The contractor shall document the process of compiling complete software executables, including but not limited to applications, middleware, and any operating environments. The contractor shall describe build dependencies including libraries and toolsets, and shall detail how to integrate all software applications (including operating system software) into TVAC Control System. The process described shall start at source code and end with the TVAC Control System loading procedures and shall be in sufficient detail to allow a third party Contractor or Government support activity to assemble and download a complete set of executables to the computers and PACs. Use Microsoft Office suite of software to develop all documentation. BLOCK 8: Code 8212 review and approval (or disapproval) and comments will be within five (5) business days of submission. Contractor shall submit an updated version, incorporating comments, for Code 8212 approval no less than five (5) business days after Code 8212 comments received, unless otherwise specified. BLOCK 12: Contractor shall deliver a minimum of fifteen (15) business days prior to performance of the acceptance test, an electronic copy of the SVD for the control system software. Allow fifteen (15) business days for Government response upon performance of the acceptance test. Resubmit, with Government comments incorporated, within fifteen (15) days DARC. BLOCK 13: Final submission of five (5) hard copies of the approved SVD for the installed control system. BLOCK 14: Electronic submission required. Hard copies will be made available upon request. CDRLs due on weekends and holidays shall be due the morning of the next business day. Upon electronic delivery of data the contractor shall notify by electronic notification in lieu of transmittal letter, all CDRL Block 6 and 14 addressees of such delivery. 15. TOTAL -G. PREPARED BY H. DATE I. APPROVED BY J. DATE

CONTRACT DATA REQUIREMENTS LIST